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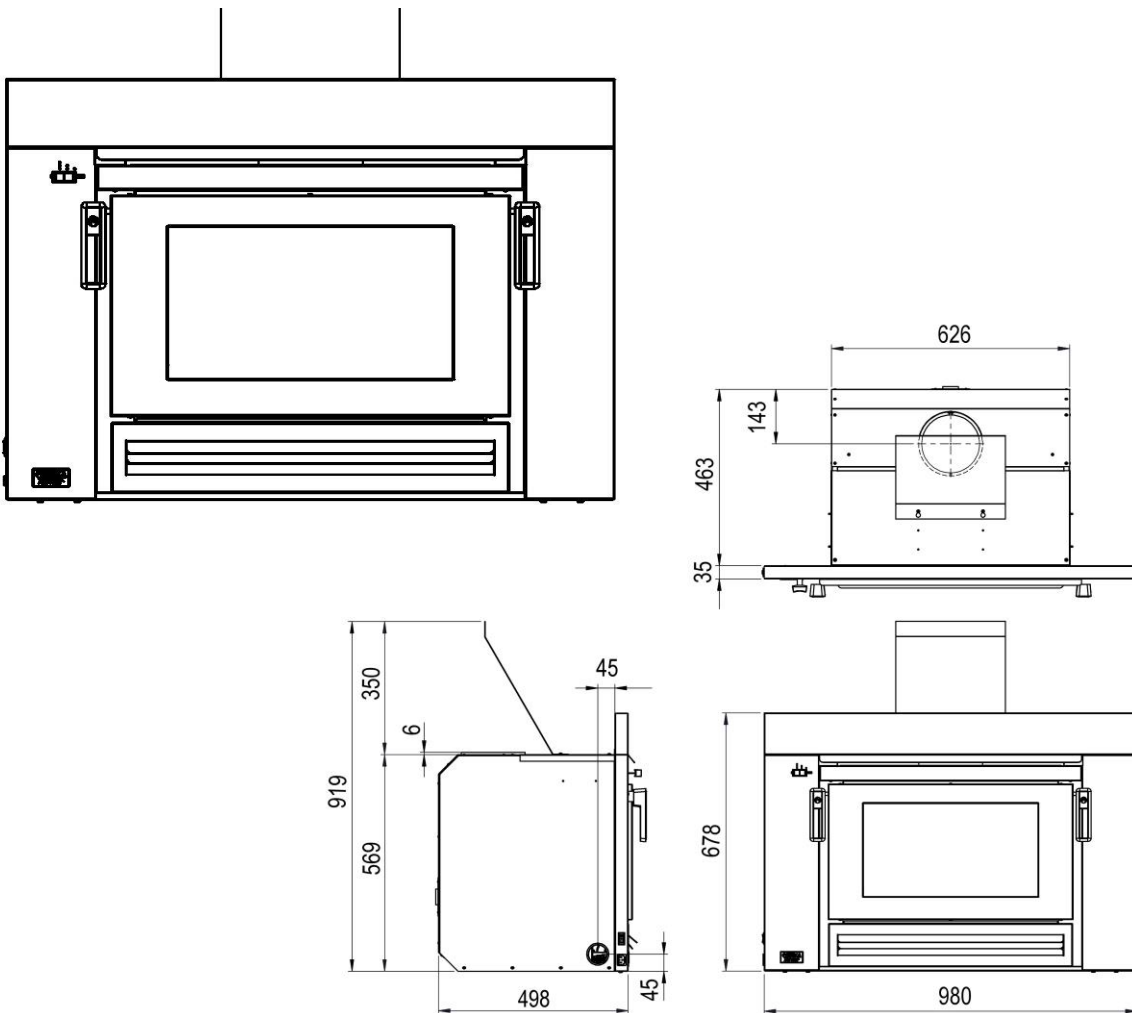
INSTALLATION INSTRUCTIONS for **XANDER INSERT** WOOD BURNER

- Clean Air Sub 1.0
- Non Clean Air (Rural)

MASONRY INSTALLATIONS

26 JUNE 2017

- ❖ These instructions are for MASONRY installations only.
- ❖ For Built-In (ZC) installations, please refer to the separate instruction book.



SAFETY INFORMATION

General:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- For the protection of young children, install an effective fire safety screen around your fire. Always keep children well away from the wood burner when it is alight.
- Supervise young children to ensure they do not play with the appliance.
- During initial burns of the appliance, ventilate the rooms well. It is recommended that babies, small children, pregnant women and pets should not be present in the area during initial burns as this is the firebox paint curing period.
- Do not make any modifications to the unit, and use it only in the manner described in the manual. Using it in any manner not recommended by the manufacturer may result in injury or death.

For units including electrical connections:

- If the wood burner is permanently connected to an electrical source, an isolating switch (wall switch) must be installed.
- New circuits or modifications, if required, but be made using the services of a certified electrician only.
- Ensure that the outlets you use are grounded properly, polarised and provided with fuse units.
- Ensure that the electrical plug is accessible after installation. The wood burner must not be located immediately below an electrical socket.
- Never operate the appliance with a damaged plug or cord, or if you observe the fan unit is malfunctioning or the heater has been damaged in any way. Call the authorised service person immediately for repairs or making electrical or mechanical adjustments. – Isolate the electrical supply in order to alleviate any potential risk.
- If the supply cord is damaged, the manufacturer, its service agent or a suitably qualified person must replace it in order to avoid electrical hazard. Any cord similar to the original can be used.

IMPORTANT INFORMATION

- I. **It is imperative that you familiarise yourself with this entire document, and also ensure you have sufficient knowledge of relevant building regulations prior to proceeding with an installation.**
- II. **The appliance and flue system shall be installed in compliance with AS/NZS 2918:2001 and the appropriate requirements of the relevant building code or codes.**
- III. **Appliances installed in accordance with this standard shall comply with the requirements of AS/NZS 4013 where required by the regulatory authority i.e. the appliance shall be identifiable by a compliance plate with the marking “tested to AS/NZS 4013”**
- IV. **Any modification of the appliance that has not been approved in writing by the testing authority is considered to be in breach of the approval granted for compliance with AS/NZS 4013**
- V. **Mixing of appliance or flue system components from different sources or modifying the dimensional specification of components may result in hazardous conditions. Where such action is considered, the manufacturer should be consulted in the first instance.**
- VI. **Cracked and broken components e.g. glass panels or fire bricks, may render the installation unsafe.**

TESTED in compliance with AS/NZS 2918: 2001

- A.** Yunca recommends that competent trades persons carry out all installations (e.g. NZHHA Registered Installer), to obtain maximum performance and safe, efficient heating.
- B.** A consent is required and we suggest you check with local building inspectors as by-laws do vary from area to area. Also notify your Insurance Company that a solid fuel heater has been installed.
- C. Floor Protector**
- C1.** Masonry installations: Floor protector (pre-cast concrete, or equivalent non-combustible material) must be installed so that its leading edge is a minimum of 350mm in front of the appliance base [with fascia attached]. **The floor protector must be a minimum of 860mm wide x 915mm deep x 50mm thick.**
- C2.** Front floor protector clearance may be reduced if appliance is elevated. (Table 2)
- D. Seismic restraint.**
- D1.** Heater must be restrained from seismic movement (Fig. 7) as required by AS/NZS 2918:2001
- E. Heat sensitive materials exclusion zone.**
- E1.** Non-combustible front cladding **must be used**, to a minimum of 600mm above the top-most panel vent, and a minimum of 30mm either side of the fascia (207mm either side of the outer casing of the firebox. (Fig. 5)
- E2.** No heat-sensitive material is permitted to contact the fascia forming or surrounding the front of the installation.
- E3.** Inside the cavity, no combustible material is to be placed any closer to the outer casing of the firebox than 600mm from the top, 20mm from either side, or 20mm from the rear.
- E4.** Where a nogging or lintel is required, a steel angle or other suitable non-combustible alternative should be used if within the aforementioned exclusion zone.
- F. Mantel Clearances.**
- F1.** Masonry installation must have a minimum of 1300mm from the underside of the mantel shelf to the top of the appliance hearth. The mantel shelf must not protrude further than 150mm into the room.
- F2.** All installations must have a minimum of 600mm vertically from the top vent to the nearest combustible material.
- F3.** **A 100mm heat deflector** must be installed directly above the fascia for the full width of the appliance if a mantel key or shelf is present.
- F4.** Mantel uprights must not protrude further than 70mm into the room, and be no closer than 30mm to the fascia on the side of the appliance where fans are (internally) hard wired. For units with external wiring using the included socket on the side panel, the side clearance to mantel uprights should be a minimum of 100mm to allow access to the electrical socket after installation.

G. Xander Wood Burner Dimensions (Fig 1)

- Blank fascia top panel (without vent) must be used for Masonry installations.
(The vented fascia top panel is for zero clearance installations only)

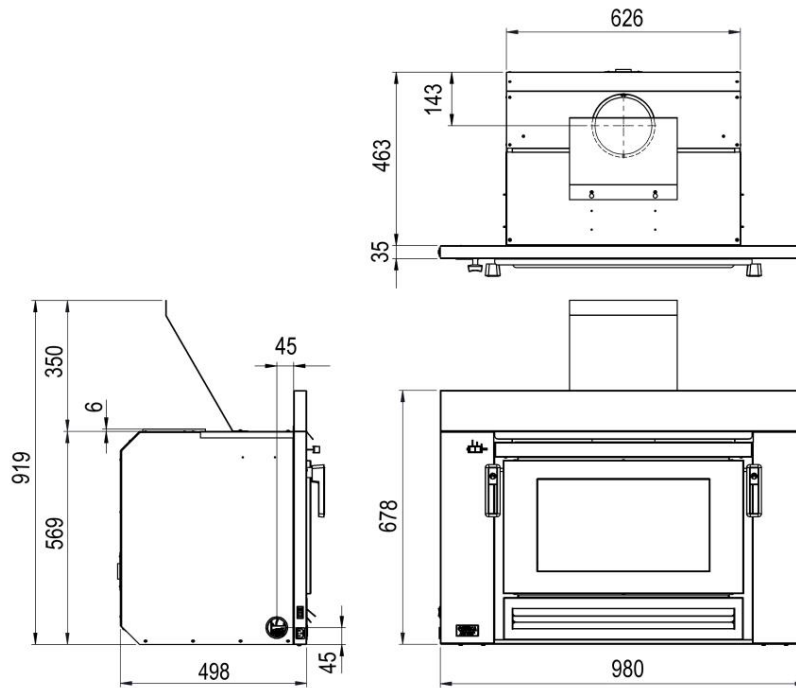


Fig. 1

H. Cavity Dimensions

H1. Cavity should be prepared using the following minimum clearances. (Table 1) & (Fig. 2)

- Increasing the cavity dimensions slightly will make installation easier.
- Ensure wiring for fan (Fig. 10) is taken into account when preparing cavity.

Table 1 MASONRY CAVITY MINIMUM DIMENSIONS (mm)		
WIDTH (W)	HEIGHT (H)	DEPTH (D)
680	600	530

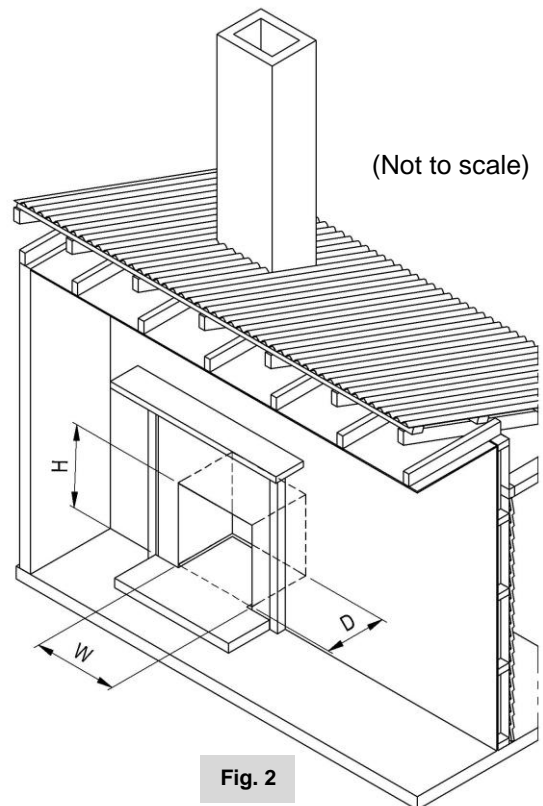


Fig. 2

I. Cavity Venting

- A 10,000mm² vent must be installed at least 600mm from the base of the enclosure. This can be any configuration as long as it equates to at least 10,000mm².
[For example: 2 holes at 50 x 50mm or 1 hole at 100 x 100mm].
- Similar vent(s) can also be added to the top of the masonry enclosure, however the venting already provided via the flue cone and liner will be sufficient without this.
- Suitable precautions should be taken to prevent rodents and/or debris from entering or obscuring the air vents. If grilles are used; ensure the minimum vent area is maintained through the grille.

J. YUNCA Insert Flue Kit – Masonry (Complies with AS/NZS 2918:2001):

J1. Masonry Flue Kit consists of the following:

- 4.8m x 150mm stainless steel flue.
- 1.2m x 250mm galvanised liner.
- 1 x top cap & cowl (cone).

⇒ **Please Note:** All flue joints must be sealed with flue sealing compound. Use stainless steel screws or rivets to join the flue pipe (three equally spaced places at each joint). The first length of flue must be fixed to the flue spigot with at least one stainless steel screw or rivet. The required minimum flue termination height is 4.6 metres above the floor protector.

K. Typical Masonry Flue Installation (Fig. 3)

Complies (with heater) to AS/NZS 2918:2001

(Not drawn to scale)

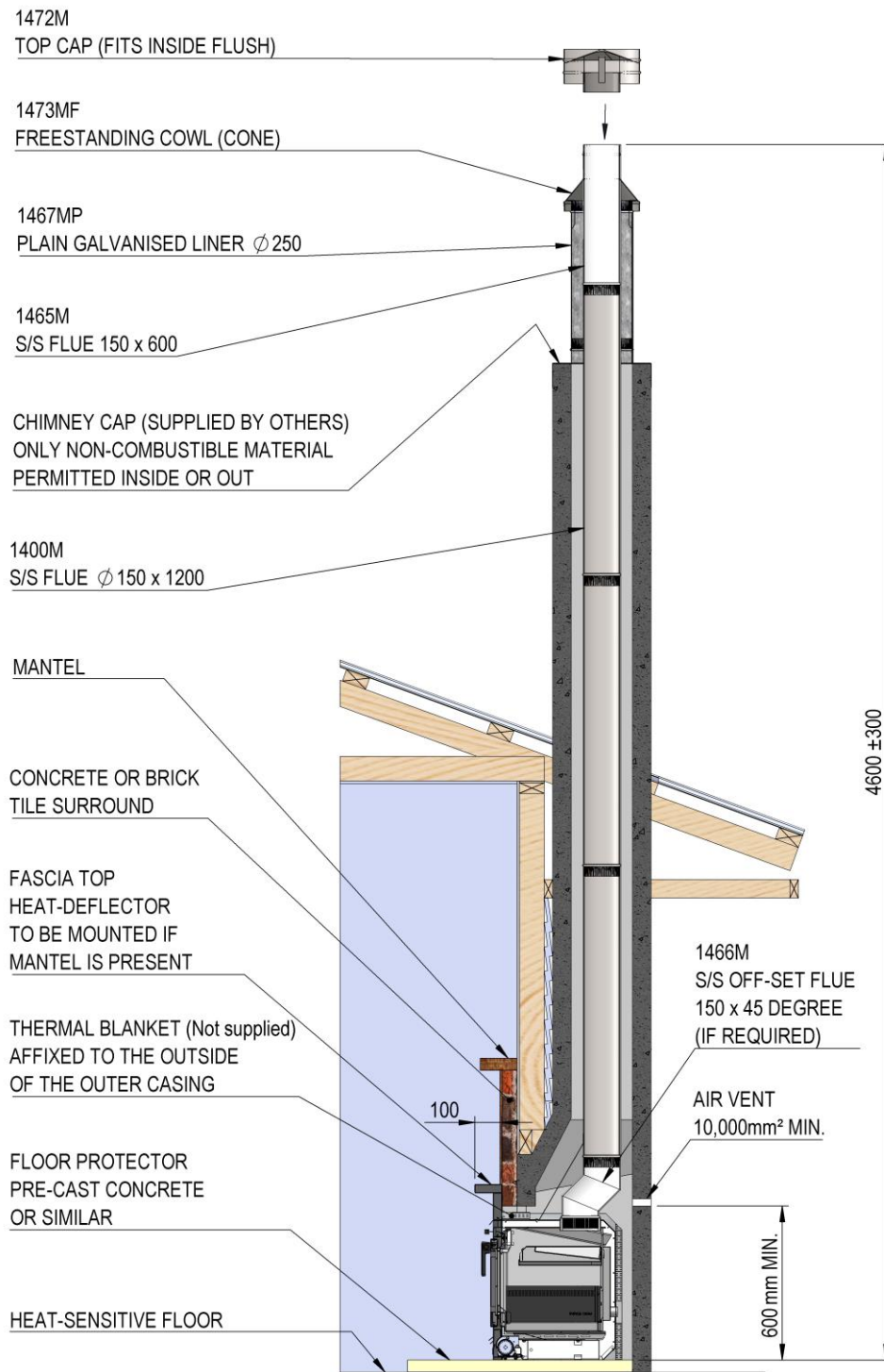


Fig. 3

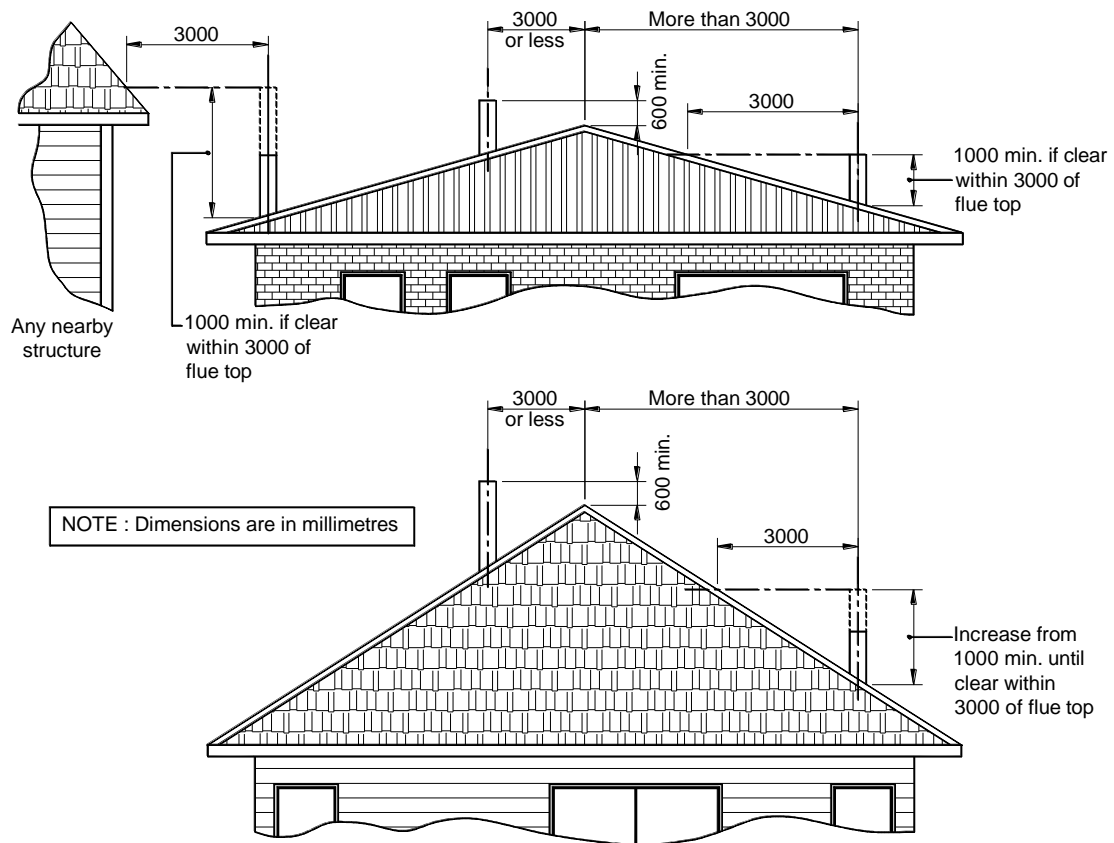
L. Conditions for Flues (Fig. 4)

L1. The FLUE shall extend to:

- Not less than 600mm above the highest point on the roof if within 3.0m of that point, **or**
- Not less than 1000mm above the intersection point with the roof and not lower than any point of the roof within 3.0m.
- In any case the length of the flue shall not be less than 4.6m from the ash floor protector.

L2. In some situations the Local Council may vary the above requirements.

L3. The flue system must comply with AS/NZS2918:2001.



MINIMUM HEIGHT OF FLUE SYSTEM EXIT

Fig. 4

M. Xander Masonry Installation Thermal Clearances

➤ THERMAL CLEARANCES FRONT VIEW

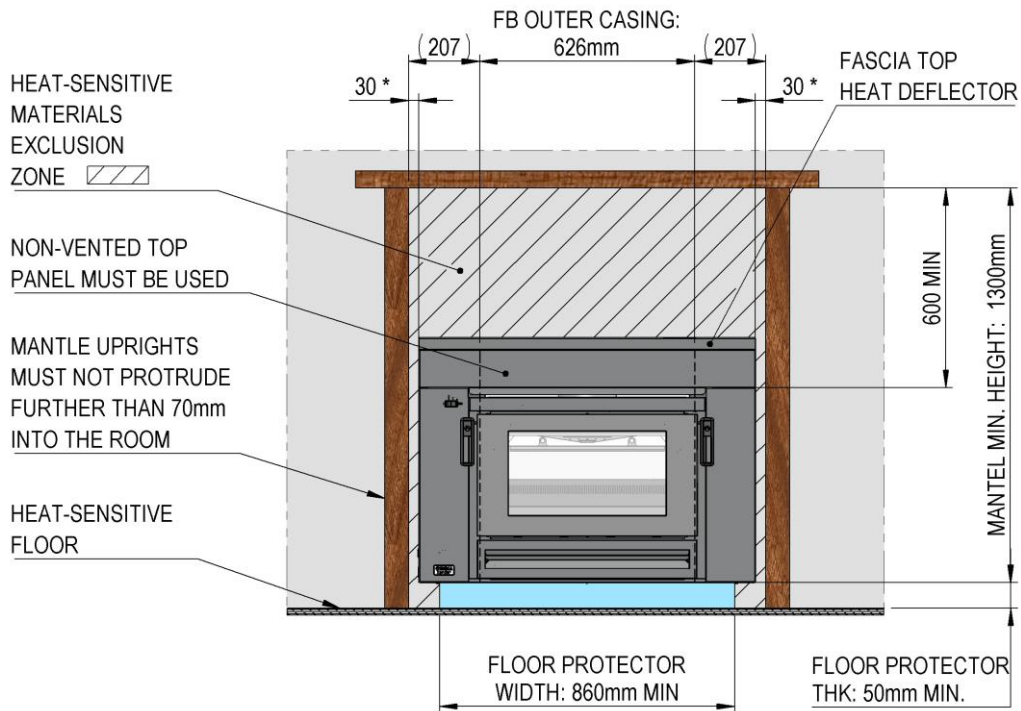


Fig. 5

➤ THERMAL CLEARANCES CROSS SECTIONS

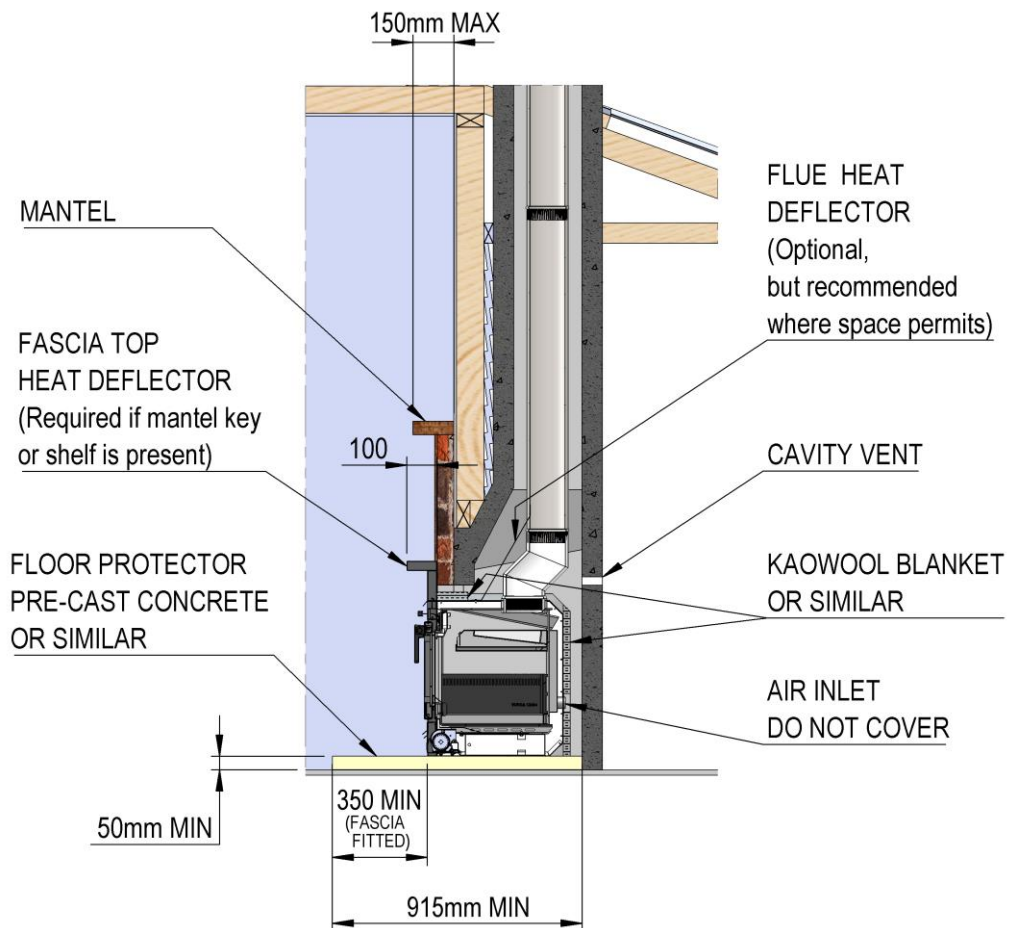


Fig. 6

N. Floor Protector Reductions

- N1.** The floor protector extension from the unit (Fig. 6) can be reduced if the unit is elevated. (Table 2)

Table 2. Floor Protector Reductions for Masonry Installations	Elevation Increase (mm)				
	0	50	100	150	200
Masonry	350	312	300	300	300

O. Xander Insert Seismic Fixings

- Follow local Council's specifications.
- Prior to installation, ensure the cavity floor is levelled. Also ensure the mantel face is perpendicular in relationship to the cavity floor.
- Ensure the unit is securely fixed using sleeve anchors or similar at the locations shown in the images on this page. (Fig. 7)

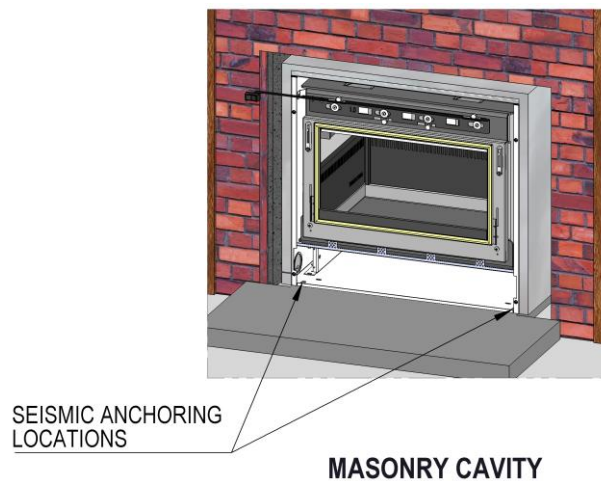


Fig. 7

P. Xander Flue Spigot Fixing (Fig. 8)

- Note: Access to affix the flue to the flue spigot is as follows:

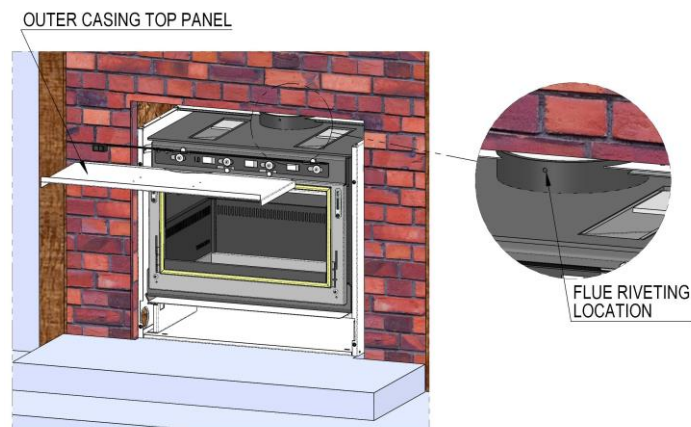


Fig. 8

- Note: Outer casing top panel must be installed after the flue is fixed in place.

Q. Thermal Blanket Installation (Fig. 9)

- Q1. To ensure efficient operation it is recommended that thermal blanket (kaowool or similar – not supplied) is affixed on the top, sides, and back of outer casing.
- Q2. Ensure rear air inlet is not obscured in any way.
- Q3. Blanket should be fastened to the outer casing in such a way that secure, long-term fitment is assured. For example; using a high temperature multipurpose adhesive, or screws and panel washers.

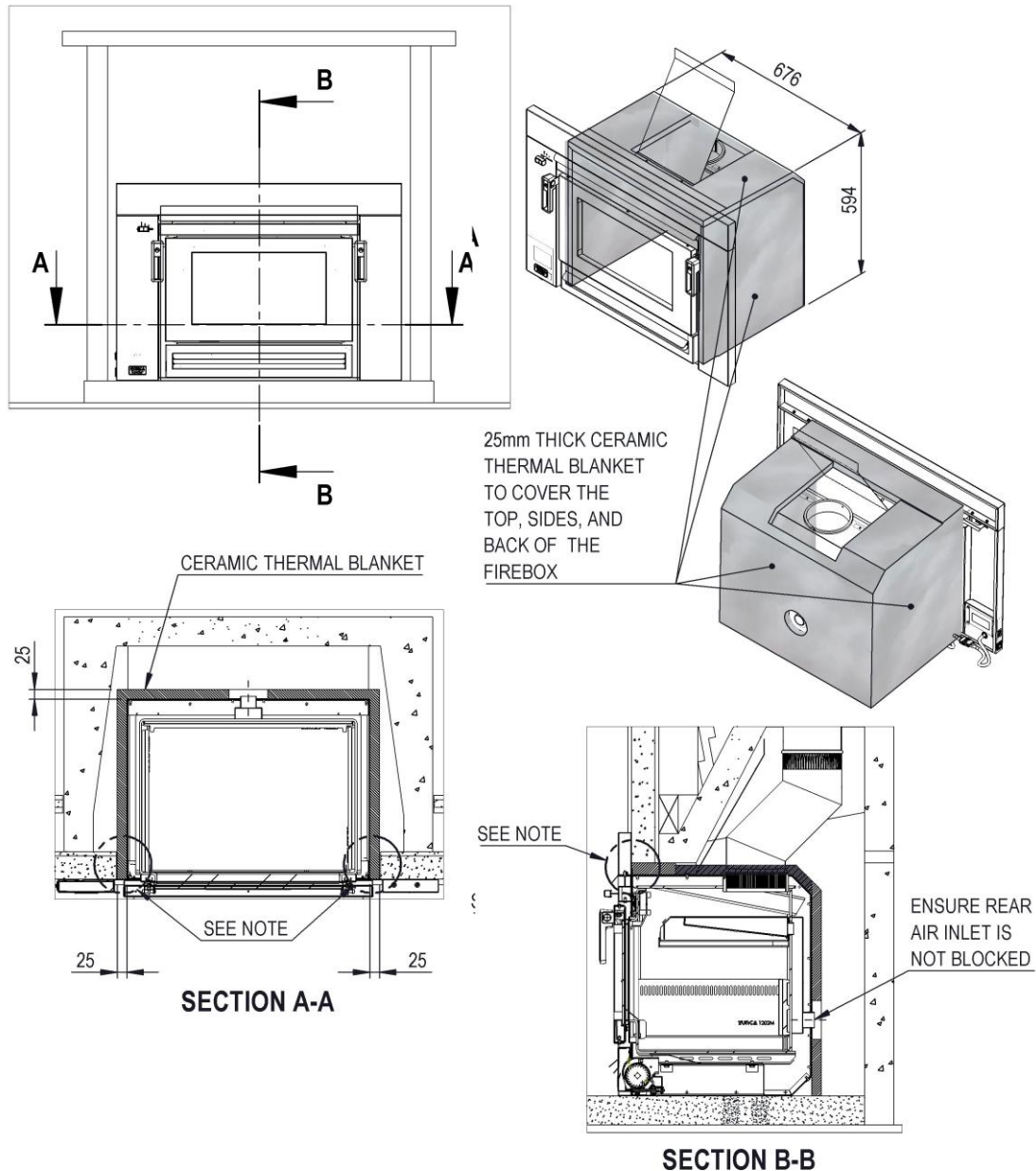


Fig. 9

⇒ CAUTION

Before installing the fascia, ensure the thermal blanket completely surrounds the top, sides, and back of the firebox (with the exception of the rear air intake), and that there will be no gaps between the thermal blanket and fascia when installed. Failure to do this will result in insufficient operation.

R. Fan Installation (Fig. 10)

- R1. Take note of the entry and exit points for the cabling, and ensure measures are taken within the cavity to allow for this.
- R2. Although the fan is controlled automatically by a thermostat it is recommended that an isolator switch is installed in conjunction.

⇒ WARNING

Ensure the fan is wired by a registered electrician, in compliance with all local regulations.

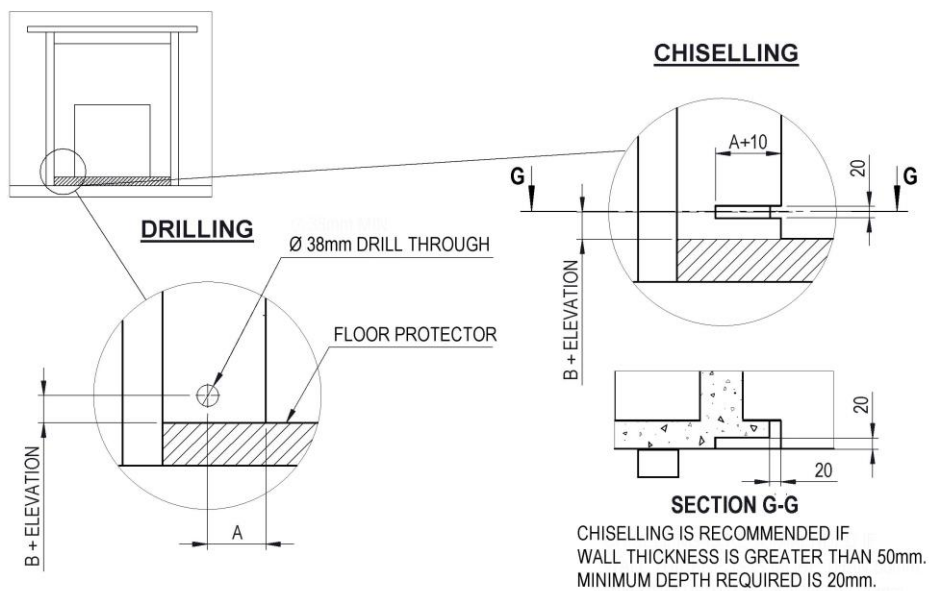
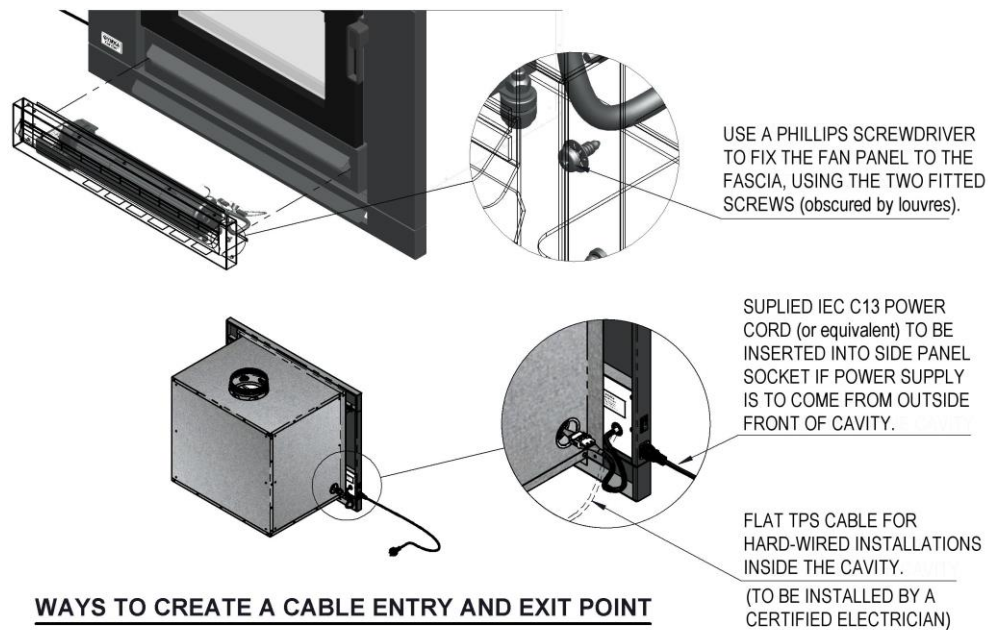


Fig. 10

INSTALLATION TYPE	FAN-SWITCH CABLE / POWER CORD ENTRY	
	A	B (TO BE ADDED TO ELEVATION)
MASONRY	103	48

S. Xander Wiring Connections

- S1.** Attach the two black thermostat leads to the thermostat terminals. (Fig. 11)
- Note: Thermostat is mounted to the underside of the heater in the fan cavity.
- S2.** Attach the thermostat Earth wire to the chassis of the heater. (Fig. 11)
- S3.** Join the 4-pole connector of the fan unit to the corresponding connector from the fascia. (Fig. 12) – Ensure they are securely locked together.



Fig. 11

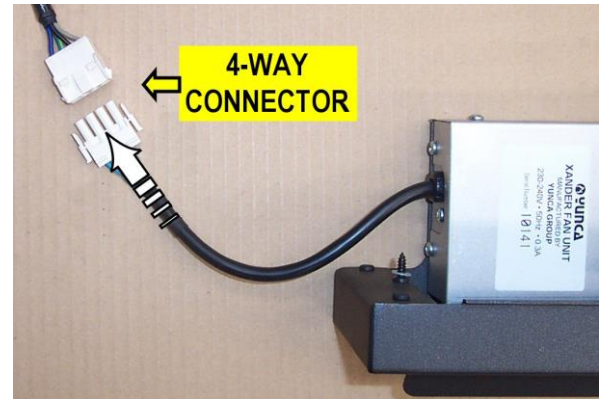


Fig. 12

- S4.** Mount the Fan unit and hearth to the fascia (Fig. 14) by securing the two screws as shown.

⇒ **WARNING**

When mounting the panel and fan assembly, any excess cabling (including the 4-pole connector) should be situated in the cavity outside of the firebox outer casing, and not in the high-temperature area under the firebox.

- S5.** Ensure all electrical connections are secure and suitably tested to applicable requirements.

- S6.** Connect the IEC C13 power plug to the IEC C14 socket (Fig. 15) in the side of the fascia.

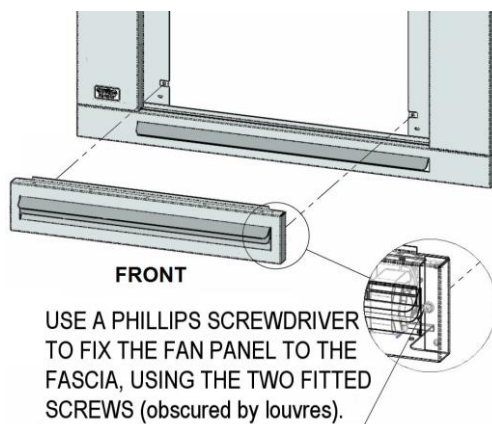


Fig. 13

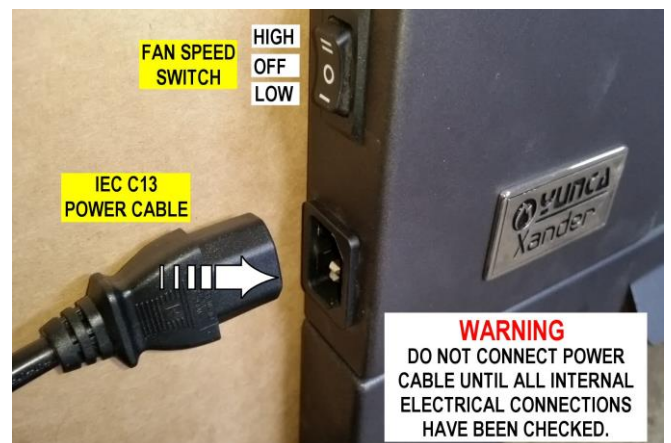


Fig. 14

⇒ **WARNING**

For hard-wired connections, the #0006238 cable must be disconnected and removed from the terminal block and IEC Socket. (Fig. 16)

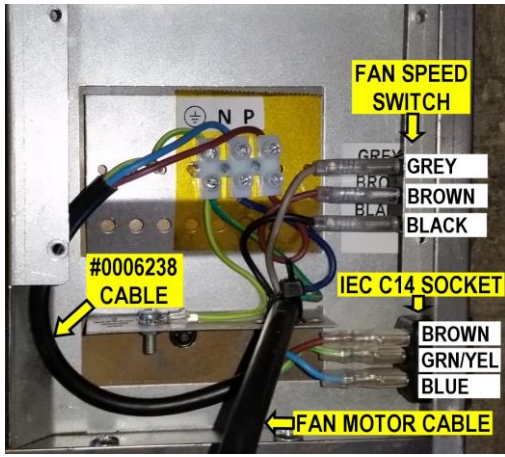


Fig. 15
Factory wired fascia circuit box

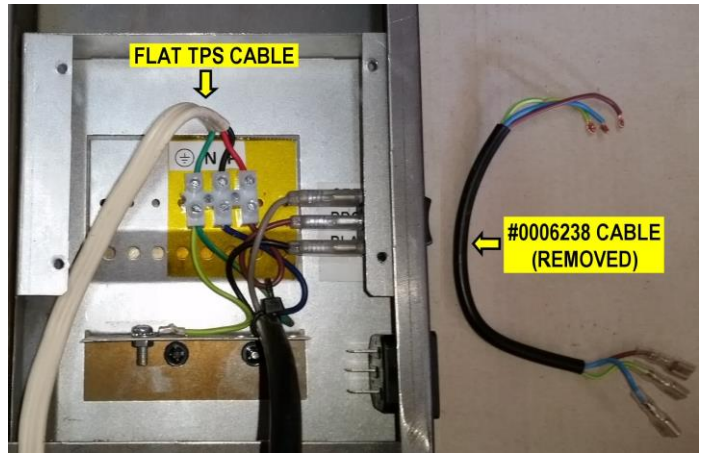


Fig. 16
Hard-wired fascia circuit box

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These instructions, spare parts information, operation and maintenance guides may be downloaded from <http://www.yunca.co.nz/installation-operation/>